

14/03/2007,10568495c.trn

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTASXY1626

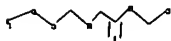
PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'REGISTRY' AT 13:31:17 ON 13 MAR 2007  
FILE 'REGISTRY' ENTERED AT 13:31:17 ON 13 MAR 2007  
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.90	187.28
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.78

=>

Uploading C:\Program Files\Stnexp\Queries\10568495c.str



chain nodes :

1 3 4 5 6 7 8 9 10 11 12

chain bonds :

1-3 3-4 4-5 5-6 6-7 7-8 8-9 8-10 9-11 11-12

exact/norm bonds :

1-3 5-6 6-7 8-9 8-10 9-11

exact bonds :

3-4 4-5 7-8 11-12

G1:Cb,Ak,O,S,N

14/03/2007,10568495c.trn

Match level :

1:CLASS 3:Atom 4:Atom 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS  
11:CLASS 12:CLASS

Generic attributes :

3:

Saturation : Unsaturated

4:

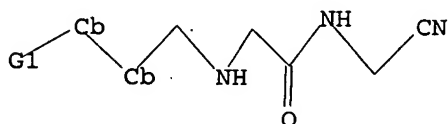
Saturation : Unsaturated

L7 STRUCTURE UPLOADED

=> d 17

L7 HAS NO ANSWERS

L7 STR



G1 Cb,Ak,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s 17

SAMPLE SEARCH INITIATED 13:32:07 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 562 TO ITERATE

100.0% PROCESSED 562 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 9818 TO 12662

PROJECTED ANSWERS: 3 TO 163

L8 3 SEA SSS SAM L7

=> s 17 full

FULL SEARCH INITIATED 13:32:14 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 12073 TO ITERATE

100.0% PROCESSED 12073 ITERATIONS

124 ANSWERS

SEARCH TIME: 00.00.01

L9 124 SEA SSS FUL L7

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
173.45	359.83

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION

14/03/2007,10568495c.trn

CA SUBSCRIBER PRICE

0.00

-0.78

FILE 'HCAPLUS' ENTERED AT 13:32:18 ON 13 MAR 2007

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FILE COVERS 1907 - 13 Mar 2007 VOL 146 ISS 12

FILE LAST UPDATED: 11 Mar 2007 (20070311/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 19

L10 14 L9

=> d ed abs ibib hitstr 1-14

14/03/2007,10568495c.trn

L10 ANSWER 1 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 01 Feb 2007

AB The invention relates to the treatment of parasitic disease with inhibitors of the papain family cysteine proteases. The parasitic diseases include toxoplasmosis, malaria, African trypanosomiasis, Chagas disease, leishmaniasis and schistosomiasis. The invention also relates to the pharmaceutical compns. comprising a papain family cysteine protease inhibitor and another agent in the treatment for parasitic disease.

ACCESSION NUMBER: 2007:113649 HCAPLUS

DOCUMENT NUMBER: 146:177158

TITLE: Papain family cysteine protease inhibitors for the treatment of parasitic diseases

INVENTOR(S): Black, Cameron; Mellon, Christophe; Nicoll-Griffith, Deborah Anne; Oballa, Renata

PATENT ASSIGNEE(S): Merck Frosst Canada Ltd., Can.

SOURCE: PCT Int. Appl., 42pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007012180	A1	20070201	WO 2006-CA1216	20060724
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: US 2005-702455P P 20050726

IT 603139-99-7P 603141-70-4P 603141-71-5P

847361-57-3P 922138-48-5P 922138-49-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(papain family cysteine protease inhibitors for treatment of parasitic diseases and combination with other agents)

RN 603139-99-7 HCAPLUS

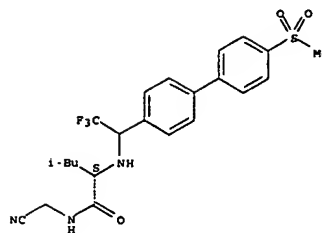
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[2,2,2-trifluoro-1-(4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl)ethyl]amino]-, (2S)-(9CI) (CA

INDEX NAME)

INDEX NAME)

Absolute stereochemistry.

L10 ANSWER 1 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

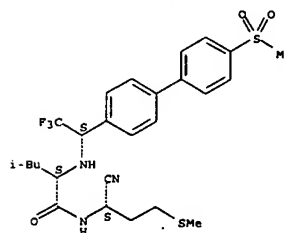


RN 603141-70-4 HCAPLUS

CN Pentanamide,

N-[(1S)-1-cyano-3-(methylthio)propyl]-4-methyl-2-[[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



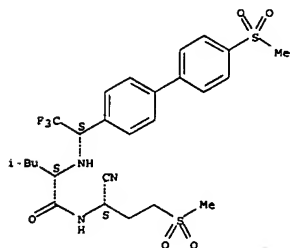
RN 603141-71-5 HCAPLUS

CN Pentanamide,

N-[(1S)-1-cyano-3-(methylsulfonyl)propyl]-4-methyl-2-[[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L10 ANSWER 1 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 847361-57-3 HCAPLUS

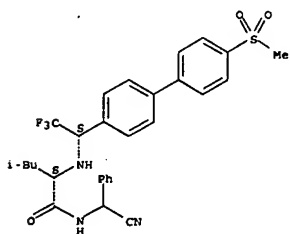
CN Pentanamide,

N-(cyanophenylmethyl)-4-methyl-2-[[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)-(9CI) (CA

INDEX NAME)

INDEX NAME)

Absolute stereochemistry.



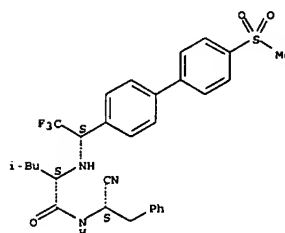
RN 922138-48-5 HCAPLUS

CN Pentanamide, N-[(1S)-1-cyano-2-phenylethyl]-4-methyl-2-[[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)-(9CI) (CA INDEX NAME)

(CA INDEX NAME)

Absolute stereochemistry.

L10 ANSWER 1 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

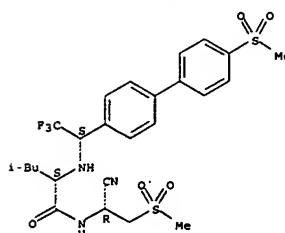


RN 922138-49-6 HCAPLUS

CN Pentanamide,

N-[(1R)-1-cyano-2-(methylsulfonyl)ethyl]-4-methyl-2-[[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L10 ANSWER 2 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 28 Jul 2006

AB The invention relates to the treatment of obesity, the treatment of obesity-related disorders, prevention of weight gain, prevention of weight regain or for weight maintenance, by the use of a cathepsin K inhibitor as active ingredient, alone or in conjunction with other anti-obesity agents.

The invention also relates to pharmaceutical compns. comprising cathepsin K inhibitors as active ingredients, pharmaceutically acceptable carriers or excipients, and optionally one or more anti-obesity agents.

ACCESSION NUMBER: 2006:735916 HCAPLUS

DOCUMENT NUMBER: 145:159867

TITLE: Cathepsin K inhibitors for the treatment of obesity and obesity-related disorders

INVENTOR(S): Percival, Michael David

PATENT ASSIGNEE(S): Merck Frost Canada Ltd., Can.

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006076796	A1	20060727	WO 2006-CA54	20060117
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: US 2005-644926P P 20050119

OTHER SOURCE(S): MARPAT 145:159867

IT 603139-12-4 603139-13-5

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(cathepsin K inhibitors for treatment of obesity and obesity-related disorders)

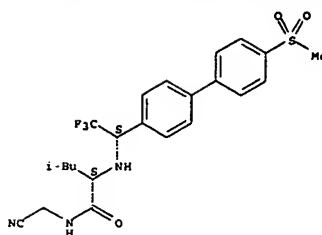
RN 603139-12-4 HCAPLUS

CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[1S]-2,2,2-trifluoro-1-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)-(9CI) (CA

INDEX NAME)

Absolute stereochemistry. Rotation (+).

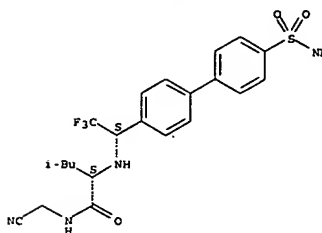
L10 ANSWER 2 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603139-13-5 HCAPLUS

CN Pentanamide, 2-[[[1S]-1-[4'-(aminosulfonyl)[1,1'-biphenyl]-4-yl]-2,2,2-trifluoroethyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L10 ANSWER 3 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 27 Jul 2006

AB This invention relates to a genus of compds., such as N1-(1-

cyanocyclopropyl)-4-fluoro-N2-[[[1S]-2,2,2-trifluoro-1-[4'-(methylsulfonyl)-1,1'-biphenyl]-4-yl]ethyl]-1-leucinamide or N-1-[[[1S]-2,2,2-trifluoro-1-[4'-(methylsulfonyl)-1,1'-biphenyl]-4-yl]ethyl]amino]-4-(4-propylpiperazin-1-yl)benzamide, which are inhibitors of cathepsin K. These compds. are useful for treating or preventing atherosclerosis and atherosclerotic cardiovascular disease.

ACCESSION NUMBER: 2006:733104 HCAPLUS

DOCUMENT NUMBER: 145:159834

TITLE: Cathepsin K inhibitors and atherosclerosis

INVENTOR(S): Percival, Michael David

PATENT ASSIGNEE(S): Merck Frost Canada Ltd., Can.

SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006076797	A1	20060727	WO 2006-CA55	20060117
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: US 2005-644938P P 20050119

OTHER SOURCE(S): MARPAT 145:159834

IT 603139-13-5 603141-37-3

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

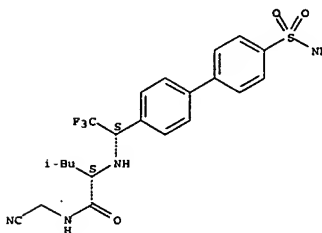
(cathepsin K inhibitors and treatment of atherosclerosis and atherosclerotic cardiovascular diseases and combination with other agents)

RN 603139-13-5 HCAPLUS

CN Pentanamide, 2-[[[1S]-1-[4'-(aminosulfonyl)[1,1'-biphenyl]-4-yl]-2,2,2-trifluoroethyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

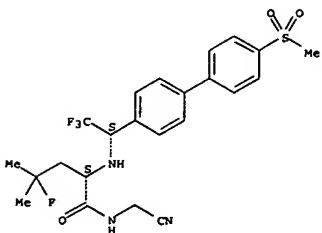
L10 ANSWER 3 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603141-37-3 HCAPLUS

CN Pentanamide, N-(cyanomethyl)-4-fluoro-4-methyl-2-[[[1S]-2,2,2-trifluoro-1-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)-(9CI) (CA INDEX NAME)

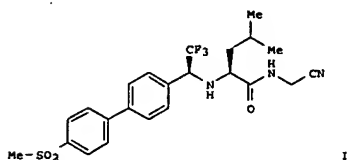
Absolute stereochemistry.



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L10 ANSWER 4 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ED Entered STN: 07 May 2006  
 GI



AB A practical, chromatog.-free synthesis of potent cathepsin K inhibitor I is described. The addition of 4-bromophenyllithium to an  $\alpha$ -trifluoromethylimine derived from com. available (S)-leucinol was accomplished in a highly diastereoselective manner (97.6% de, 91% yield). Subsequent Suzuki cross-coupling afforded the biaryl derivative

Oxidation of the alc. and sulfide functionalities led to the formation of carboxylic acid. Crystallization of the biaryl intermediate and the acid as its dicyclohexylamine

salt gave excellent impurity rejection. The final amide coupling with com. available aminoacetonitrile hydrochloride afforded I in excellent purity (99.6% by HPLC, 100% de, <3 ppm Pd, W, Cr).

ACCESSION NUMBER: 2006:413175 HCAPLUS

DOCUMENT NUMBER: 145:124273

TITLE: Diastereoselective Aryllithium Addition to an  $\alpha$ -Trifluoromethyl Imine. Practical Synthesis of a Potent Cathepsin K Inhibitor

AUTHOR(S): Roy, Amelie; Gosselin, Francis; O'Shea, Paul D.; Chen,

CORPORATE SOURCE: Cheng-Y. Department of Process Research, Merck Frosst Centre for Therapeutic Research, Kirkland, QC, H9H 3L1, Can. Journal of Organic Chemistry (2006), 71(11),

SOURCE: 4320-4323

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 145:124273

IT 603139-12-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

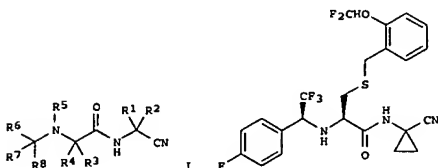
(preparation of a potent cathepsin K inhibitor by diastereoselective aryllithium addition to an  $\alpha$ -trifluoromethyl imine)

RN 603139-12-4 HCAPLUS

CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[(1S)-2,2,2-trifluoro-1-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA

INDEX

L10 ANSWER 5 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ED Entered STN: 31 Mar 2006  
 GI



AB The present invention is directed to a novel process for preparing cyanomethyl peptide analogs I (R1 = H, alkyl; R2 = H, alkyl, haloalkyl, carboxyalkyl, alkoxy-carbonylalkyl, cycloalkyl, cycloalkylalkyl, aryl, aralkyl, heteroaryl, heterocycloalkyl, heterocycloalkylalkyl, CN, etc.; or R1 and R2 may form cycloalkyl or heterocycloalkyl ring; R3 = H, alkyl; R4 = alkyl, haloalkyl, cycloalkylalkyl, aryl, aralkyl, heteroaryl, heterocycloalkyl, heterocycloalkylalkyl, etc.; or R3 and R4 may form cycloalkyl ring; R5 = H, alkyl; R6 = (un)substituted cycloalkyl, aryl, aralkyl, heteroaryl, heterocycloalkyl, heterocycloalkylalkyl; R7 = haloalkyl, R8 = H, alkyl, haloalkyl) or pharmaceutically acceptable salts thereof, useful as cysteine protease inhibitors (no data). Thus, N-alkylation of S-(2-difluoromethoxybenzyl)-L-cysteine (preparation given) with 2,2,2-trifluoro-1-(4-fluorophenyl)ethyl triflate (preparation given),

followed by S-oxidation and amidation with 1-aminocyclopropanecarbonitrile (preparation given) gave cyanocyclopropyl peptide analog II after column chromatog.

ACCESSION NUMBER: 2006:298556 HCAPLUS

DOCUMENT NUMBER: 144:350977

TITLE: Methods for the preparation of cyanomethyl peptide analogs useful as cysteine protease inhibitors

INVENTOR(S): Li, Jiayao

PATENT ASSIGNEE(S): Akys Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 101 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

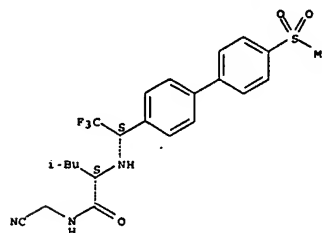
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
MO 2006034004	A2	20060330	MO 2005-US33051	20050916
MO 2006034004	A3	20061123		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HK, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,			

L10 ANSWER 4 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L10 ANSWER 5 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

YU, ZA, ZM, ZW

RN: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BP, BJ, CP, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, BH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPL. INFO.: US 2004-610806P P 20040917

OTHER SOURCE(S): MARPAT 144:350977

IT 603139-12-4P 603139-13-SP

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

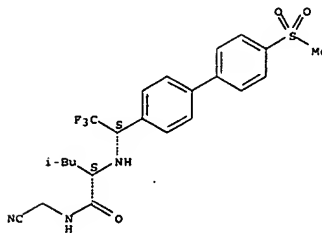
(methods for the preparation of cyanomethyl peptide analogs useful as cysteine protease inhibitors)

RN 603139-12-4 HCAPLUS

CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[(1S)-2,2,2-trifluoro-1-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA

INDEX NAME)

Absolute stereochemistry. Rotation (+).



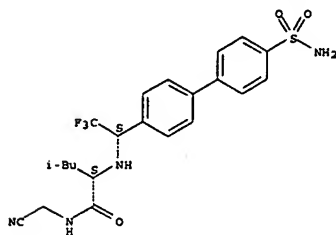
RN 603139-13-5 HCAPLUS

CN Pentanamide, 2-[[[(1S)-1-[4'-(aminosulfonyl)[1,1'-biphenyl]-4-yl]-2,2,2-trifluoroethyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

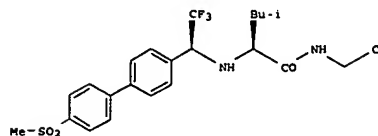
Absolute stereochemistry.

14/03/2007,10568495c.trn

L10 ANSWER 5 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L10 ANSWER 6 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN  
ED Entered STN: 02 Mar 2006  
GI



AB Based on our previous study with trifluoroethylamine as a P2-P3 amide isostere of cathepsin K inhibitor, further optimization led to identification of L-873724 (I) as a potent and selective non-basic cathepsin K inhibitor. This compound showed excellent pharmacokinetics and

efficacy in an ovariectomized (OVX) rhesus monkey model. The vols. of distribution close to unity were consistent with this compound not being lysosomotropic, which is a characteristic of basic cathepsin K inhibitors.

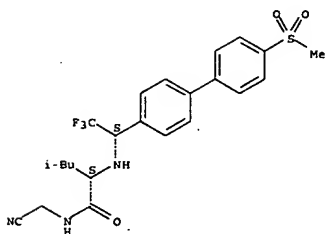
ACCESSION NUMBER: 2006:188910 HCAPLUS  
DOCUMENT NUMBER: 144:403771  
TITLE: Identification of a potent and selective non-basic cathepsin K inhibitor  
AUTHOR(S): Li, Chun Sing; Deschenes, Denis; Desmarais, Sylvie; Falgoutet, Jean-Pierre; Gauthier, Jacques Yves; Kimmel, Donald B.; Leger, Serge; Masse, Frederic; McGrath, Mary E.; McKay, Daniel J.; Percival, M. David; Riendeau, Denis; Rodan, Sevgi B.; Therien, Michel; Truong, Vouy-Linh; Wesolowski, Gregg; Zamboni, Robert; Black, W. Cameron

CORPORATE SOURCE: Merck Frosst Centre for Therapeutic Research, Pointe-Claire-Dorval, QC, H9R 4P8, Can.  
SOURCE: Bioorganic & Medicinal Chemistry Letters (2006), 16(7), 1985-1989  
CODEN: BMCLE8; ISSN: 0960-894X  
PUBLISHER: Elsevier B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English

IT 603139-12-4P  
RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(trifluoromethyl leucine derive. as cathepsin K inhibitors)  
RN 603139-12-4 HCAPLUS

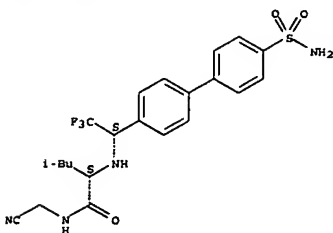
L10 ANSWER 6 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[(1S)-2,2,2-trifluoro-1-(4'-methylethylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 603139-13-5P  
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(trifluoromethyl leucine derive. as cathepsin K inhibitors)  
RN 603139-13-5 HCAPLUS  
CN Pentanamide, 2-[[[(1S)-1-(4'-aminosulfonyl)[1,1'-biphenyl]-4-yl]-2,2,2-trifluoroethyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



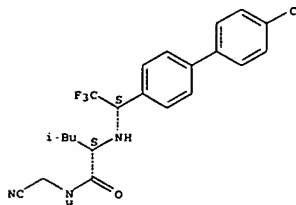
IT 603139-65-7P 603140-08-5P 603140-40-5P  
603140-50-7P 603140-54-1P 603141-12-4P

Young, Shawquia, Page 7

L10 ANSWER 6 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

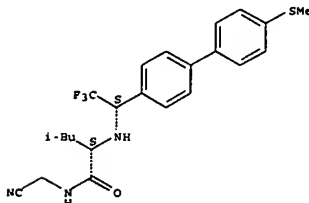
(trifluoromethyl leucine derive. as cathepsin K inhibitors)  
RN 603139-65-7 HCAPLUS  
CN Pentanamide, 2-[[[(1S)-1-(4'-cyano[1,1'-biphenyl]-4-yl)-2,2,2-trifluoroethyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 603140-08-5 HCAPLUS  
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[(1S)-2,2,2-trifluoro-1-(4'-methylethylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

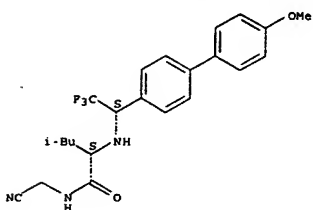


RN 603140-40-5 HCAPLUS  
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[(1S)-2,2,2-trifluoro-1-(4'-methoxy[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

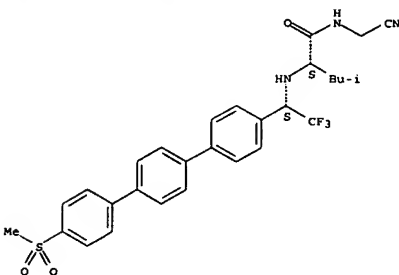
14/03/2007,10568495c.trn

L10 ANSWER 6 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603140-50-7 HCAPLUS  
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[1S]-2,2,2-trifluoro-1-[(4-methylsulfonyl)[1,1':4',1''-terphenyl]-4-yl]ethyl]amino-. (2S)- (9CI) (CA INDEX NAME)

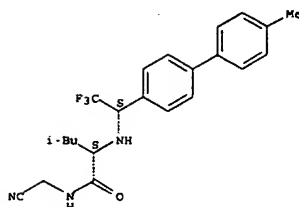
Absolute stereochemistry.



RN 603140-54-1 HCAPLUS  
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[1S]-2,2,2-trifluoro-1-[(4-methylsulfonyl)[1,1':4',1''-terphenyl]-4-yl]ethyl]amino-. (2S)- (9CI) (CA INDEX NAME)

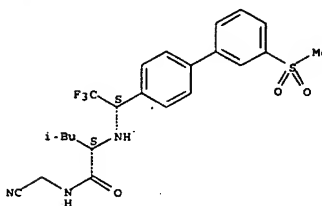
Absolute stereochemistry.

L10 ANSWER 6 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



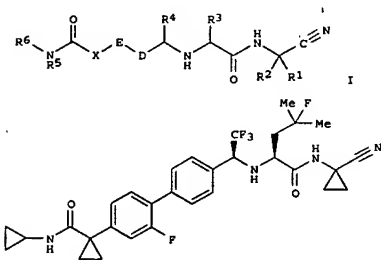
RN 603141-12-4 HCAPLUS  
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[1S]-2,2,2-trifluoro-1-[(4-methylsulfonyl)[1,1':4',1''-terphenyl]-4-yl]ethyl]amino-. (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L10 ANSWER 7 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN  
ED Entered STN: 24 Jun 2005  
GI



II

AB The invention relates to a novel class of compds. I [R1, R2 are independently H, (un)substituted alkyl, alkenyl, aryl, heteroaryl or heterocyclyl; or R1R2C form a cycloalkyl or heterocyclyl ring; R3 is (un)substituted alkyl or alkenyl; R4 is alkyl or haloalkyl; R5 is H or alkyl; D, E are independently (un)substituted aryl or heteroaryl; X is cycloalkyl or CRaRb, where Ra, Rb are H or alkyl optionally substituted by OR5] which are cysteine protease inhibitors (e.g., inhibitors of cathepsins K, L, S and B) and are useful for treating osteoporosis and other diseases in which inhibition of bone resorption is indicated.

Thus, 4-fluoro-L-leucine 1-cyanocyclopropylamide II was prepared via coupling of intermediates 1-(4-bromo-3-fluorophenyl)-N-cyclopropylcyclopropanecarboxamide with N1-(1-cyanocyclopropyl)-4-fluoro-N2-[(1S)-2,2,2-trifluoro-1-[(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl]ethyl]-L-leucinamide in the presence of 1,1'-bis(diphenylphosphino)ferrocene[dichloropalladium (II)].

ACCESSION NUMBER: 2005:547595 HCAPLUS  
DOCUMENT NUMBER: 143:60251  
TITLE: Preparation of peptide nitriles as cathepsin cysteine protease inhibitors  
INVENTOR(S): Boyd, Michael; Lau, Cheuk; Mellon, Christophe; Roy, Bruno; Scheigetz, John; Truong, Vouy Linh  
PATENT ASSIGNEE(S): Merck Frosst Canada & Co., Can.  
SOURCE: PCT Int. Appl., 69 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

L10 ANSWER 7 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

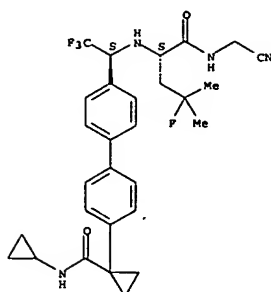
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005056529	A1	20050623	WO 2004-CA2101	20041209
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2004296905	A1	20050623	AU 2004-296905	20041209
CA 2548600	A1	20050623	CA 2004-2548600	20041209
EP 1694647	A1	20060830	EP 2004-802278	20041209
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS			
CN 1906164	A	20070131	CN 2004-80036642	20041209
PRIORITY APPLN. INFO.:			US 2003-529254P	P 20031212
			WO 2004-CA2101	W 20041209

OTHER SOURCE(S): MARPAT 143:60251  
IT 854268-13-6P 854268-19-2P 854268-47-6P  
RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of peptide nitriles as cathepsin cysteine protease inhibitors)  
RN 854268-13-6 HCAPLUS  
CN Cyclopropanecarboxamide, 1-(4'-[(1S)-1-[(1S)-1-[[[cyanomethyl]amino]carbonyl]-3-fluoro-3-methylbutyl]amino]-2,2,2-trifluoroethyl][1,1'-biphenyl]-4-yl]-N-cyclopropyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

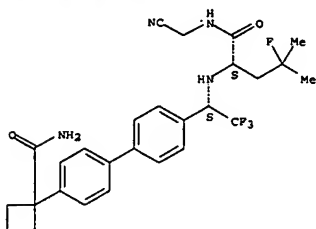


L10 ANSWER 7 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 854368-19-2 HCAPLUS  
 CN Cyclobutanecarboxamide, 1-[4'-{[(1S)-1-[[[(1S)-1-[[[(cyanomethyl)amino]carbonyl]-3-fluoro-3-methylbutyl]amino]-2,2,2-trifluoroethyl][1,1'-biphenyl]-4-yl]}- (9CI) (CA INDEX NAME)

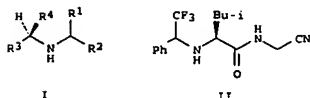
Absolute stereochemistry.



RN 854368-47-6 HCAPLUS  
 CN Cyclopropanecarboxamide, 1-[4'-{[(1S)-1-[[[(1S)-1-[[[(cyanomethyl)amino]carbonyl]-3-fluoro-3-methylbutyl]amino]-2,2,2-trifluoroethyl][1,1'-biphenyl]-4-yl]}- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L10 ANSWER 8 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ED Entered STN: 11 Mar 2005  
 GI



AB The invention relates to compds. I which are cysteine protease inhibitors, including but not limited to inhibitors of cathepsins K, L, S and B, and are useful for treating diseases in which inhibition of bone resorption

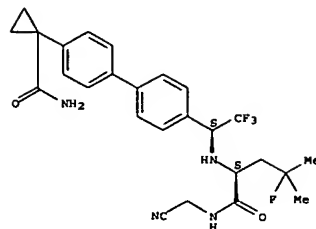
is indicated, e.g., osteoporosis, osteoarthritis and rheumatoid arthritis. Thus, a mixture of L-leucine Me ester hydrochloride, 2,2,2-trifluoroacetophenone, diisopropylethylamine and TiCl4 in CH2Cl2 was stirred overnight, addnl. TiCl4 added, and the mixture stirred an addnl.

3 h. A solution of NaCNBH3 in MeOH was added and the mixture stirred 2 h to afford Me N-(2,2,2-trifluoro-1-phenylethyl)-L-leucinate. Saponification of the ester and reaction with aminocetonitrile hydrochloride in DMF in the presence of PyBOP and Et3N yielded L-leucinamide derivative II.

ACCESSION NUMBER: 2005:219775 HCAPLUS  
 DOCUMENT NUMBER: 142:280425  
 TITLE: Preparation of amino acid derivatives as cathepsin inhibitors  
 INVENTOR(S): Bayly, Christopher; Black, Cameron; McKay, Daniel J.  
 PATENT ASSIGNEE(S): Merck Frost Canada & Co., Can.  
 SOURCE: PCT Int. Appl., 106 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NO 2005021487	A1	20050310	NO 2004-CA1577	20040823
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RM: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004268707	A1	20050310	AU 2004-268707	20040823
CA 2535366	A1	20050310	CA 2004-2535366	20040823

L10 ANSWER 7 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

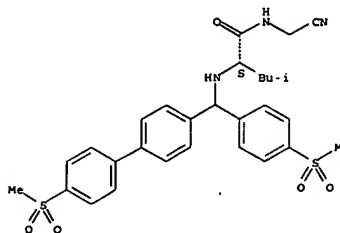


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 EP 1660436 A1 20060531 EP 2004-761741 20040823  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK  
 CN 1842515 A 20061004 CN 2004-80024520 20040823  
 JP 2007503401 T 20070222 JP 2006-524194 20040823  
 US 2006287402 A1 20061221 US 2006-569351 20060222  
 PRIORITY APPL. INFO.: US 2003-498017P P 20030827  
 WO 2004-CA1577 W 20040823

OTHER SOURCE(S): MARPAT 142:280425  
 IT 603139-08-8P 603139-12-4P 603141-70-4P  
 603142-15-0P 847361-50-4P 847361-57-3P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of amino acid derive. as cathepsin inhibitors)  
 RN 603139-08-8 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[4'-[(methylsulfonyl)[1,1'-biphenyl]-4-yl][4-(methylsulfonyl)phenyl]methyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 603139-12-4 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[4'-[(methylsulfonyl)[1,1'-biphenyl]-4-yl][4-(methylsulfonyl)phenyl]methyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

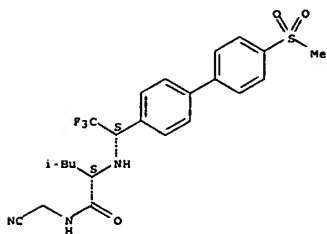
Absolute stereochemistry. Rotation (+).



14/03/2007,10568495c.trn

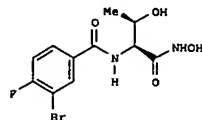
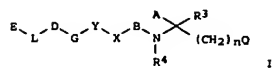
L10 ANSWER 9 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
RN 603139-12-4 HCAPLUS  
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[(1S)-2,2,2-trifluoro-1-(4'-  
(methylsulfonyl)[1,1'-biphenyl]-4-yl)ethyl]amino]-, (2S)- (9CI) (CA  
INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS  
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L10 ANSWER 10 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN  
ED Entered STN: 30 Jul 2004  
GI



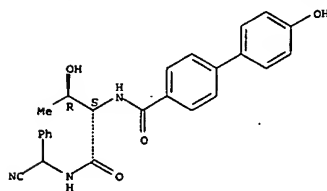
AB Title compds. I [E = absent or H, (un)substituted-alkyl, -alkenyl, -aryl,  
etc.; L = absent or CONH, NHCO, (un)substituted alkyl, etc.; D = absent  
or  
(un)substituted-cycloalkyl, -aryl, -heterocyclyl or -heteroaryl; G =  
absent or alkene, alkyne, CO, etc.; Y = (un)substituted-cycloalkyl,  
-aryl,  
-heterocyclyl or -heteroaryl; X = CO, alkylcarbonyl, alkenylcarbonyl,  
alkynylcarbonyl, methylene, or when B is absent X and A together form  
heterocyclic ring; B = absent or substituted aminoalkylcarbonyl; R3 = H  
or  
(un)substituted alkyl, or R3 and A together form a cycloalkyl or  
heterocyclic ring; R4 = H or (un)substituted alkyl, or R4 and A together  
form a heterocyclic ring; n = 0-2; A = H, acetylene, alkyl, etc.; Q =  
absent or substituted amide, SH, SO2NH2, CO2H, etc.] are disclosed: As  
well as stereoisomers, pharmaceutically acceptable salts, esters, and  
products thereof; pharmaceutical compns. comprising such compds.; methods  
of treating bacterial infections by the administration of such compds.;  
and processes for the preparation of the compds. Thus, e.g., II was  
prepared via  
amidation of 3-bromo-4-fluorobenzoic acid with L-threonine Me ester  
hydrochloride followed by substitution with hydroxylamine hydrochloride.  
This invention pertains generally to treating infections caused by  
gram-neg. bacteria. More specifically, the invention described pertains  
to treating gram-neg. infections by inhibiting activity of  
UDP-3-O-(R-3-hydroxydecanoyl)-N-acetylglucosamine deacetylase (LpxC).  
Many of I displayed an IC50 value of less than 10 µM with respect to  
inhibition of LpxC.  
ACCESSION NUMBER: 2004:610055 HCAPLUS  
DOCUMENT NUMBER: 141:157473  
TITLE: Preparation of amino acid derivatives as  
antibacterial agents  
INVENTOR(S): Anderson, Neils H.; Bowman, Jason; Erwin, Alice;

L10 ANSWER 10 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
Harwood, Eric; Kline, Toni; Mdluli, Khisimuzi; Ng,  
Simon; Pfister, Keith B.; Shawar, Ribhi; Wegman,  
Allan; Yabannavar, Asha  
Chiron Corporation, USA  
PCT Int. Appl., 324 pp.  
CODEN: PIXX2  
Patent  
English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

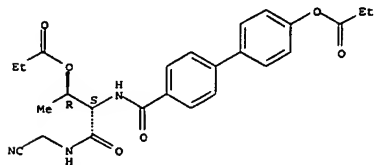
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004062601	A2	20040729	WO 2004-US433	20040108
WO 2004062601	A3	20050421		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ			
AU 2004204760	A1	20040729	AU 2004-204760	20040108
CA 2512582	A1	20040729	CA 2004-2512582	20040108
US 2004229955	A1	20041118	US 2004-754928	20040108
EP 1618087	A2	20060125	EP 2004-700887	20040108
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
CN 1777577	A	20060524	CN 2004-80005935	20040108
JP 2006519772	T	20060831	JP 2006-500858	20040108
IN 2005KN01343	A	20060915	IN 2005-KN1343	20050712
US 2006154988	A1	20060713	US 2005-187708	20050722
PRIORITY APPLN. INFO.:			US 2003-438523P	P 20030108
			US 2003-466974P	P 20030430
			US 2003-520211P	P 20031113
			US 2004-754928	A1 20040108
			WO 2004-US433	W 20040108

OTHER SOURCE(S): MARPAT 141:157473  
IT 728867-68-3P 728867-70-7P 728867-72-9P  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(drug candidate; preparation of amino acid deriva. as antibacterial agents)  
RN 728867-68-3 HCAPLUS  
CN [1,1'-Biphenyl]-4-carboxamide,  
N-[(1S,2R)-1-[[[(cyanophenylmethyl)amino]carbonyl]-2-hydroxypropyl]-4'-hydroxy- (9CI) (CA INDEX NAME)  
Absolute stereochemistry.

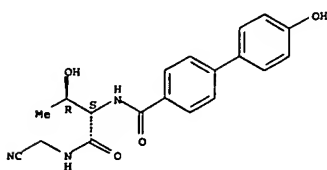
L10 ANSWER 10 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 728867-70-7 HCAPLUS  
CN [1,1'-Biphenyl]-4-carboxamide,  
N-[(1S,2R)-1-[[[(cyanomethyl)amino]carbonyl]-2-(1-oxopropoxy)propyl]-4'-hydroxy- (9CI) (CA INDEX NAME)  
Absolute stereochemistry.



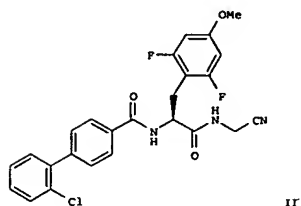
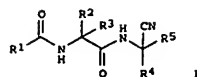
RN 728867-72-9 HCAPLUS  
CN [1,1'-Biphenyl]-4-carboxamide,  
N-[(1S,2R)-1-[[[(cyanomethyl)amino]carbonyl]-2-hydroxypropyl]-4'-hydroxy- (9CI) (CA INDEX NAME)  
Absolute stereochemistry.



14/03/2007,10568495c.trn

L10 ANSWER 10 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L10 ANSWER 11 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN  
ED Entered STN: 27 Jun 2004  
OI



AB The dipeptide derive. [I (R1 = substituted Ph, aryl, diaryl, heterodiaryl, furanyl, arylfuranyl, pyrazolyl, etc.; R2 = H, (un)substituted cycloalkyl, indolyl, alkylindolyl, Me, Et, Pr, pentyl, etc.; R3 = H, or R2 and R3 together with the carbon atom to which they are attached formed (un)substituted cycloalkylene, cycloalkenylene or spirocycloalkylene; R4 = H; R5 = H, (un)substituted alkyl or heteroaryl, or R4' and R5 together with the carbon atom to which they are attached form cycloalkylene or heterocycloalkylene] were prepared as cysteine protease inhibitors, in particular, cathepsins B, K, L, P, and S, for treating diseases mediated by these proteases. Thus, compound II was prepared via peptide coupling of 2'-chlorobiphenyl-4-carboxylic acid with synthesized 2(S)-amino-N-cyanomethyl-3-(2,6-difluoro-4-methoxyphenyl)-propionamide. Comps. of the invention were tested by in vitro essays for protease activity and showed cathepsins B, K, L, P, and S inhibitory activity.  
ACCESSION NUMBER: 2004:515539 HCAPLUS  
DOCUMENT NUMBER: 141:71829  
TITLE: Cyanomethyl derivatives as cysteine protease inhibitors

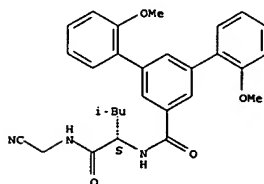
L10 ANSWER 11 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
INVENTOR(S): Graupe, Michael; Leu, Agnes J.; Link, John O.; Liu, Yang; Mossman, Craig J.; Patterson, John W.; Zipfel, Sheila M.  
PATENT ASSIGNER(S): Axya Pharmaceuticals, Inc., USA  
SOURCE: PCT Int. Appl., 134 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052921	A1	20040624	WO 2003-US17979	20031126
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RM:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,			
TG	CA 2506114	A1	20040624	CA 2003-2506114
	AU 2003298740	A1	20040630	AU 2003-298740
	EP 1569954	A1	20050907	EP 2003-796499
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK		
	US 2006122184	A1	20060608	US 2005-536889
PRIORITY APPLN. INFO.:			US 2002-431354P	P 20021205
			WO 2003-US17979	W 20031126

OTHER SOURCE(S): MARPAT 141:71829  
IT 710350-11-1P 710350-22-4P 710350-24-6P  
710350-25-7P 710350-36-0P 710350-37-1P  
710350-39-3P 710350-80-4P  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of dipeptide cyanomethyl derive. as cysteine protease inhibitors)  
RN 710350-11-1 HCAPLUS  
CN (1,1',3',1'''-Terphenyl]-5'-carboxamide, N-[[[1S]-1-[[[cyanomethyl]amino]carbonyl]-3-methylbutyl]-2,2''-dimethoxy- (9CI) (CA INDEX NAME)

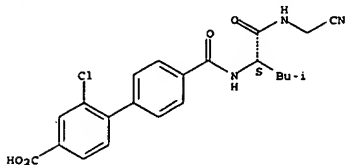
Absolute stereochemistry.

L10 ANSWER 11 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



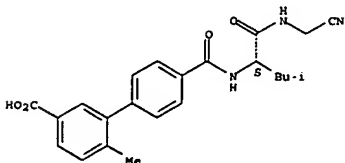
RN 710350-22-4 HCAPLUS  
CN [1,1'-Biphenyl]-4-carboxylic acid, 2-chloro-4'-[[[1S]-1-[[[cyanomethyl]amino]carbonyl]-3-methylbutyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 710350-24-6 HCAPLUS  
CN [1,1'-Biphenyl]-3-carboxylic acid, 4'-[[[1S]-1-[[[cyanomethyl]amino]carbonyl]-3-methylbutyl]amino]carbonyl]-6-methyl- (9CI) (CA INDEX NAME)

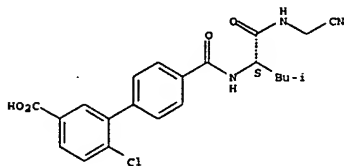
Absolute stereochemistry.



RN 710350-25-7 HCAPLUS

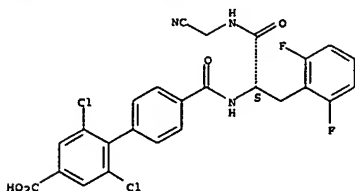
L10 ANSWER 11 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 CN [1,1'-Biphenyl]-3-carboxylic acid, 6-chloro-4'-[[[(1S)-1-[[[cyanomethyl]amino]carbonyl]-3-methylbutyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 710350-36-0 HCAPLUS  
 CN [1,1'-Biphenyl]-4-carboxylic acid, 2,6-dichloro-4'-[[[(1S)-2-[[[cyanomethyl]amino]-1-[(2,6-difluorophenyl)methyl]-2-oxoethyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

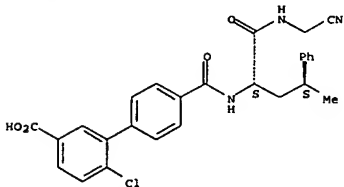
Absolute stereochemistry.



RN 710350-37-1 HCAPLUS  
 CN [1,1'-Biphenyl]-3-carboxylic acid, 6-chloro-4'-[[[(1S)-2-[[[cyanomethyl]amino]-1-[(2,6-difluoro-4-methoxyphenyl)methyl]-2-oxoethyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

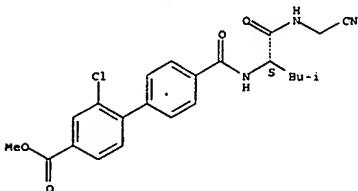
L10 ANSWER 11 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



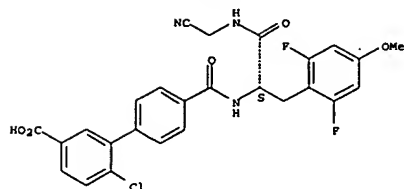
IT 710350-76-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of dipeptide cyanomethyl derivs. as cysteine protease inhibitors)

RN 710350-76-8 HCAPLUS  
 CN [1,1'-Biphenyl]-4-carboxylic acid, 2-chloro-4'-[[[(1S)-1-[[[cyanomethyl]amino]carbonyl]-3-methylbutyl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

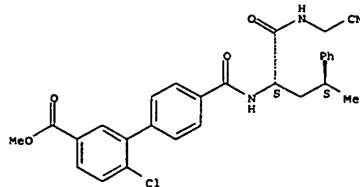


L10 ANSWER 11 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 710350-39-3 HCAPLUS  
 CN [1,1'-Biphenyl]-3-carboxylic acid, 6-chloro-4'-[[[(1S,3S)-1-[[[cyanomethyl]amino]carbonyl]-3-phenylbutyl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 710350-80-4 HCAPLUS  
 CN [1,1'-Biphenyl]-3-carboxylic acid, 6-chloro-4'-[[[(1S,3S)-1-[[[cyanomethyl]amino]carbonyl]-3-phenylbutyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ED Entered STN: 19 Sep 2003  
 AB This invention relates to cysteine protease inhibitors  
 R7(D)NCR67NRBCR3R4C(O)NHCR1R2CN (R1-4 = H, (substituted)C1-6-alkyl or C2-6-alkenyl; R1 and R2 or R3 and R4 may be taken together with the C atom to which they are attached to form a (substituted)C3-6-cycloalkyl or heterocyclic ring; R5 = H, (substituted)C1-6-alkyl; R6 = (substituted)aryl, heteroaryl, C1-6-haloalkyl, arylalkyl, heteroarylalkyl; D = (substituted)C1-3-alkyl, C2-3-alkenyl, C2-3-alkynyl, aryl, heteroaryl, C3-8-cycloalkyl, heterocyclyl; R7 = H, (substituted)C1-6-alkyl, C2-6-alkenyl, C2-6-alkynyl, C1-6-alkoxy, etc.; R8 = H, C2-6-alkyl) including but not limited to, inhibitors of cathepsins K, L, S and B. These compds. are useful for treating diseases in which inhibition of bone resorption is indicated, such as osteoporosis.

ACCESSION NUMBER: 2003:737516 HCAPLUS  
 DOCUMENT NUMBER: 139:257284  
 TITLE: Cathepsin cysteine protease inhibitors and their therapeutic use  
 INVENTOR(S): Bayly, Christopher I.; Black, Cameron; Leger, Serge; Li, Chun Sing; McKay, Dan; Mellon, Christophe; Gauthier, Jacques Yves; Lau, Cheuk; Therien, Michel; Truong, Vouy-Linh; Green, Michael J.; Hirschbein, Bernard L.; Janc, James W.; Palmer, James T.; Baskaran, Chitra  
 PATENT ASSIGNEE(S): Merck Frost Canada & Co., Can.; Axys Pharmaceuticals, Inc.  
 SOURCE: PCT Int. Appl., 282 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

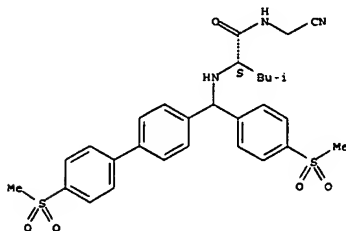
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003075836	A2	20030918	WO 2003-056147	20030228
WO 2003075836	A3	20040715		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RM: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GW, GQ, GT, HE, HR, NE, SN, TD, TG				
CA 2477657	A1	20030918	CA 2003-2477657	20030228
AU 2003219953	A1	20030922	AU 2003-219953	20030228
US 2003232863	A1	20031218	US 2003-377377	20030228
EP 1482924	A2	20041208	EP 2003-716238	20030228
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003008208	A	20050111	BR 2003-8208	20030228
CN 1438757	A	20050713	CN 2003-805181	20030228
JP 2005526753	T	20050908	JP 2003-574112	20030228
NZ 534583	A	20061130	NZ 2003-534583	20030228

14/03/2007,10568495c.trn

L10 ANSWER 12 OF 14 HCAPIUS COPYRIGHT 2007 ACS on STN (Continued)  
US 2005240023 A1 20051027 US 2004-505796 20040825  
NO 2004004207 A 20041124 NO 2004-4207 20041004  
PRIORITY APPLN. INFO.: US 2002-361818P P 20020305  
US 2002-408704P P 20020906  
WO 2003-US6147 W 20030228

OTHER SOURCE(S): MARPAT 139:257284  
IT 603139-08-8P 603139-09-9P 603139-12-4P  
603139-13-5P 603139-22-6P 603139-23-7P  
603139-24-8P 603139-28-2P 603139-29-3P  
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);  
THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
(Uses)  
(cathepsin cysteine protease inhibitors and their therapeutic use)  
RN 603139-08-8 HCAPIUS  
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[4'-(methylsulfonyl)[1,1'-  
biphenyl]-4-yl][4-(methylsulfonyl)phenyl]methyl]amino]-, (2S)- (9CI) (CA  
INDEX NAME)

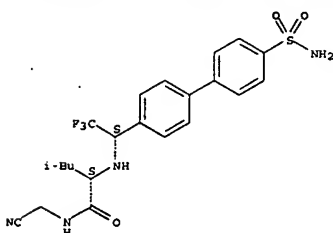
Absolute stereochemistry.



RN 603139-09-9 HCAPIUS  
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[2,2,2-trifluoro-1-[4'-  
(methylsulfonyl)[1,1'-biphenyl]-3-yl]ethyl]amino]-, (2S)- (9CI) (CA  
INDEX NAME)

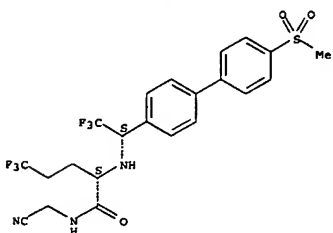
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPIUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603139-22-6 HCAPIUS  
CN Pentanamide, N-(cyanomethyl)-5,5,5-trifluoro-2-[[[1S]-2,2,2-trifluoro-1-[4'-  
(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA  
INDEX NAME)

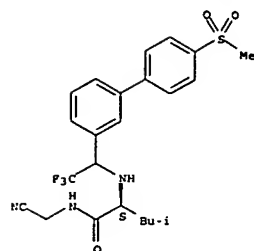
Absolute stereochemistry.



RN 603139-23-7 HCAPIUS  
CN Pentanamide, N-(cyanomethyl)-2-[[[1S]-2,2,2-trifluoro-1-[4'-  
(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-4-methyl-, (2S)- (9CI)  
(CA INDEX NAME)

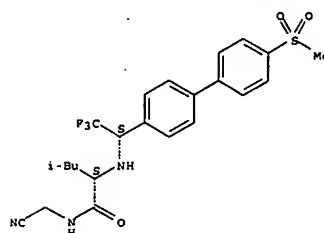
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPIUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603139-12-4 HCAPIUS  
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[1S]-2,2,2-trifluoro-1-[4'-  
(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA  
INDEX NAME)

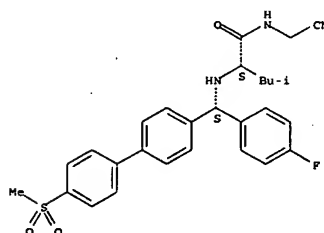
Absolute stereochemistry. Rotation (+).



RN 603139-13-5 HCAPIUS  
CN Pentanamide, 2-[[[1S]-2,2,2-trifluoro-1-[4'-(aminosulfonyl)[1,1'-biphenyl]-4-yl]-2,2,2-trifluoroethyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

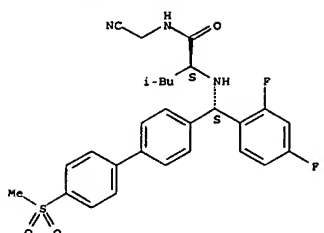
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPIUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603139-24-8 HCAPIUS  
CN Pentanamide, N-(cyanomethyl)-2-[[[1S]-2,2,2-trifluoro-1-[4'-(aminosulfonyl)[1,1'-biphenyl]-4-yl]-2,2,2-trifluoroethyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

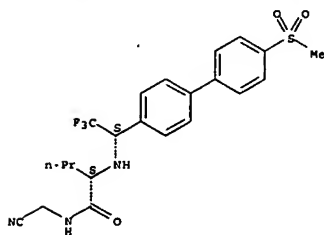
Absolute stereochemistry.



RN 603139-28-2 HCAPIUS  
CN Pentanamide, N-(cyanomethyl)-2-[[[1S]-2,2,2-trifluoro-1-[4'-  
(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA  
INDEX NAME)

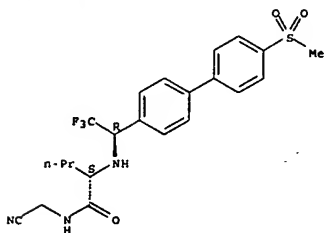
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



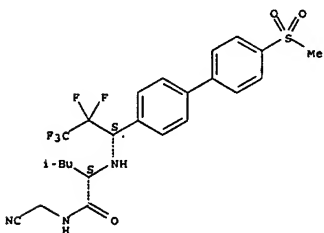
RN 603139-29-3 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-2-[[[1R]-2,2,2-trifluoro-1-(4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl)ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



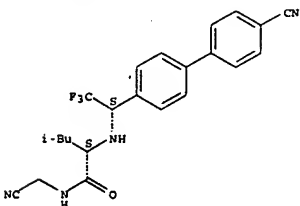
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 603140-08-5P 603140-10-9P 603140-11-0P

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603139-65-7 HCAPLUS  
 CN Pentanamide, 2-[[[1S]-1-(4'-cyano[1,1'-biphenyl]-4-yl)-2,2,2-trifluoroethyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 603139-67-9 HCAPLUS  
 CN (1,1'-Biphenyl)-2-carboxylic acid, 4'-[1-[[[1-[[[1-cyanomethyl]amino]carbonyl]-3-methylbutyl]amino]-2,2,2-trifluoroethyl]-, methyl ester (9CI) (CA INDEX NAME)

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

603140-12-1P 603140-13-2P 603140-30-3P  
 603140-40-5P 603140-46-1P 603140-50-7P  
 603140-52-9P 603140-53-0P 603140-54-1P  
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RI: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

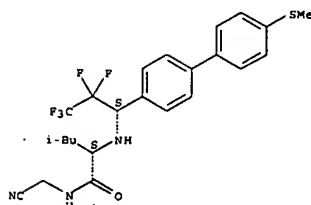
(cathepsin cysteine protease inhibitors and their therapeutic use)

RN 603139-56-6 HCAPLUS

CN Pentanamide,

N-(cyanomethyl)-4-methyl-2-[[[1S]-2,2,3,3,3-pentafluoro-1-(4'-(methylthio)[1,1'-biphenyl]-4-yl]propyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



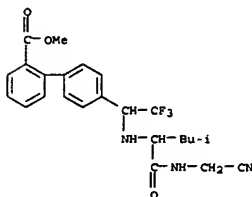
RN 603139-57-7 HCAPLUS

CN Pentanamide,

N-(cyanomethyl)-4-methyl-2-[[[1S]-2,2,3,3,3-pentafluoro-1-(4'-(methylthio)[1,1'-biphenyl]-4-yl]propyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

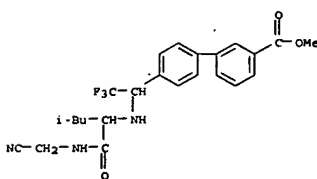
L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603139-68-0 HCAPLUS

CN [1,1'-Biphenyl]-3-carboxylic acid,

4'-[1-[[[1-[[[1-cyanomethyl]amino]carbonyl]-3-methylbutyl]amino]-2,2,2-trifluoroethyl]-, methyl ester (9CI) (CA INDEX NAME)



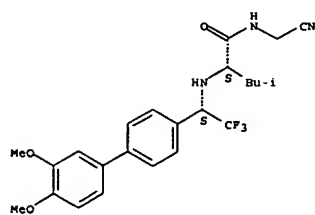
RN 603139-69-1 HCAPLUS

CN Pentanamide,

N-(cyanomethyl)-2-[[[1S]-1-(3',4'-dimethoxy[1,1'-biphenyl]-4-yl)-2,2,2-trifluoroethyl]amino]-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

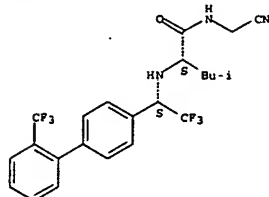
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603139-70-4 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-[(2'-trifluoromethyl)[1,1'-biphenyl]-4-yl]ethyl]amino)-, (2S)- (9CI) (CA INDEX NAME)

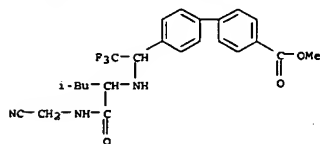
Absolute stereochemistry.



RN 603139-72-6 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-(3'-formyl[1,1'-biphenyl]-4-yl)ethyl]amino)-, (2S)- (9CI) (CA INDEX NAME)

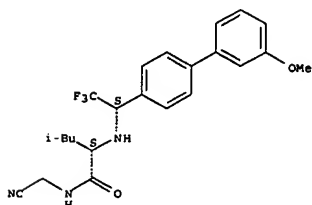
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



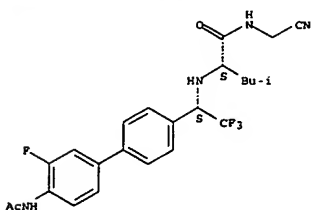
RN 603139-84-0 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-(3'-methoxy[1,1'-biphenyl]-4-yl)ethyl]amino)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



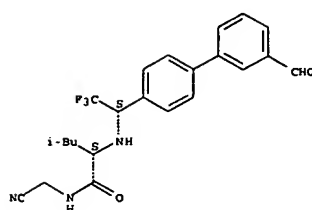
RN 603139-85-1 HCAPLUS  
 CN Pentanamide, 2-([(1S)-1-(4'-acetylamino-3'-fluoro[1,1'-biphenyl]-4-yl)-2,2,2-trifluoroethyl]amino)-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



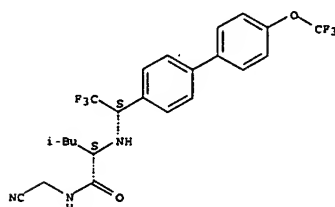
Young, Shawquia, Page 16

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603139-74-8 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-(4'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl)ethyl]amino)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

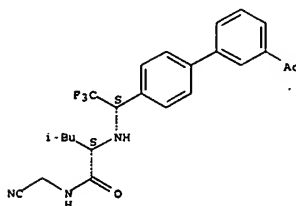


RN 603139-78-2 HCAPLUS  
 CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[1-[(1-[(cyanomethyl)amino]carbonyl]-3-methylbutyl]amino]-2,2,2-trifluoroethyl-, methyl ester (9CI) (CA INDEX NAME)

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

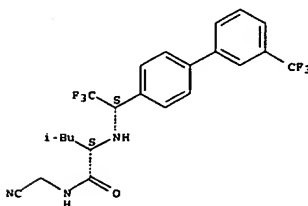
RN 603139-89-5 HCAPLUS  
 CN Pentanamide, 2-([(1S)-1-(3'-acetyl[1,1'-biphenyl]-4-yl)-2,2,2-trifluoroethyl]amino)-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 603139-90-8 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-(3'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)ethyl]amino)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



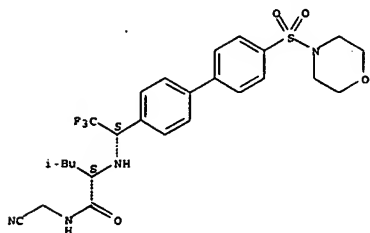
RN 603139-91-9 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-(5'-fluoro-2'-methoxy[1,1'-biphenyl]-4-yl)ethyl]amino)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



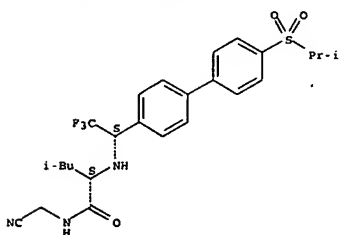


L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603140-11-0 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-(4'-methyl-1,1'-biphenyl-4-yl)ethyl]amino)-, (2S)- (9CI) (CA INDEX NAME)

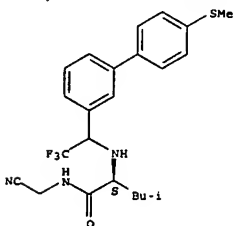
Absolute stereochemistry.



RN 603140-12-1 HCAPLUS  
 CN Pentanamide, 2-([(1S)-1-(4'-[(acetylamino)sulfonyl][1,1'-biphenyl]-4-yl)-2,2,2-trifluoroethyl]amino)-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

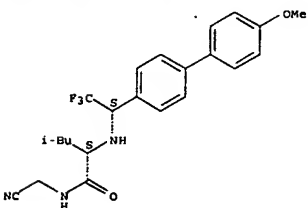
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603140-40-5 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-(4'-methoxy[1,1'-biphenyl]-4-yl)ethyl]amino)-, (2S)- (9CI) (CA INDEX NAME)

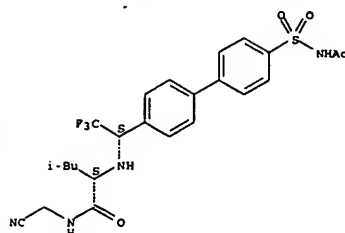
Absolute stereochemistry.



RN 603140-46-1 HCAPLUS  
 CN Pentanamide, 2-([(1S)-1-(4'-[(acetylamino)-2'-methyl[1,1'-biphenyl]-4-yl)-2,2,2-trifluoroethyl]amino)-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

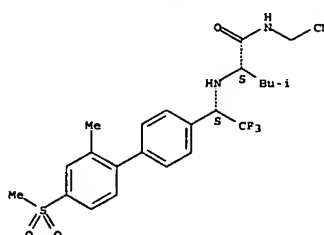
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603140-13-2 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-(2'-methyl-4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl)ethyl]amino)-, (2S)- (9CI) (CA INDEX NAME)

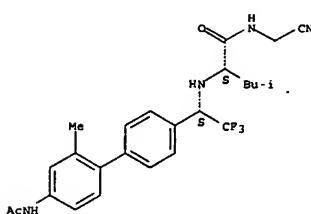
Absolute stereochemistry.



RN 603140-30-3 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(2,2,2-trifluoro-1-(4'-(methylthio)[1,1'-biphenyl]-3-yl)ethyl]amino)-, (2S)- (9CI) (CA INDEX NAME)

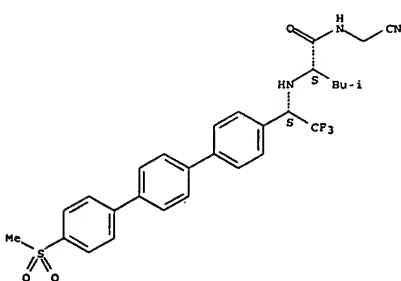
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



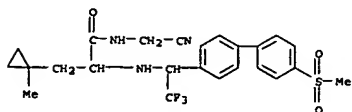
RN 603140-50-7 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-(4'-(methylsulfonyl)[1,1'-4',1''-terphenyl]-4-yl)ethyl]amino)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

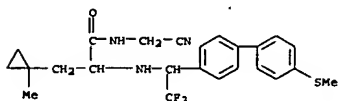


RN 603140-52-9 HCAPLUS  
 CN Cyclopropanepropanamide, N-(cyanomethyl)-1-methyl-α-([(2,2,2-trifluoro-1-(4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl)ethyl]amino)- (9CI) (CA INDEX NAME)

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

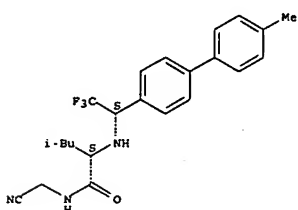


RN 603140-53-0 HCAPLUS  
 CN Cyclopropanepropanamide, N-(cyanomethyl)-1-methyl-α-[[2,2,2-trifluoro-1-(4'-(methylthio)[1,1'-biphenyl]-4-yl)ethyl]amino]- (9CI) (CA INDEX NAME)



RN 603140-54-1 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[1S]-2,2,2-trifluoro-1-(4'-methyl[1,1'-biphenyl]-4-yl)ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

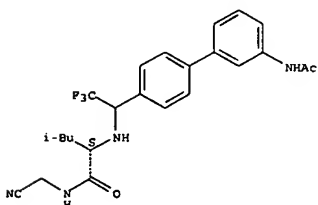
Absolute stereochemistry.



RN 603140-55-2 HCAPLUS  
 CN Pentanamide, 2-[[[1S]-1-(4'-acetyl[1,1'-biphenyl]-4-yl)-2,2,2-trifluoroethyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

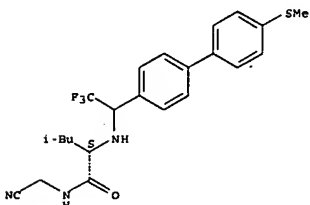
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603140-83-6 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[2,2,2-trifluoro-1-(4'-(methylthio)[1,1'-biphenyl]-4-yl)ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

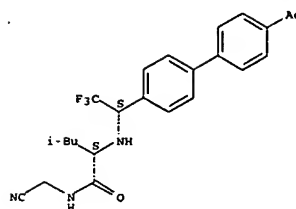
Absolute stereochemistry.



RN 603140-86-9 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[1-[4'-(dimethylamino)[1,1'-biphenyl]-4-yl]-2,2,2-trifluoroethyl]amino]-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

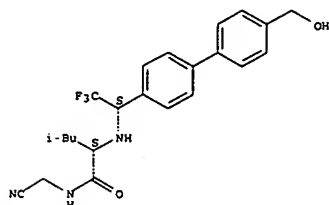
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603140-56-3 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[1S]-2,2,2-trifluoro-1-(4'-(hydroxymethyl)[1,1'-biphenyl]-4-yl)ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

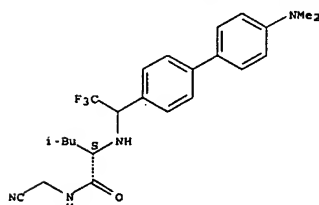
Absolute stereochemistry.



RN 603140-64-3 HCAPLUS  
 CN Pentanamide, 2-[[[1-[3'-(acetylamino)[1,1'-biphenyl]-4-yl]-2,2,2-trifluoroethyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

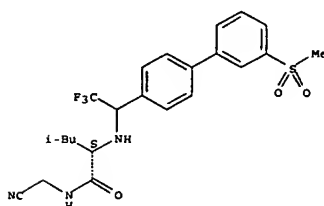
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



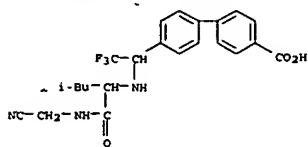
RN 603140-89-2 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[2,2,2-trifluoro-1-(3'-(methylsulfonyl)[1,1'-biphenyl]-4-yl)ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

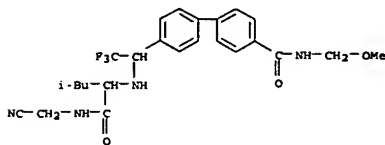


RN 603140-90-5 HCAPLUS  
 CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[1-[[[1-(cyanomethyl)amino]carbonyl]-3-methylbutyl]amino]-2,2,2-trifluoroethyl]- (9CI) (CA INDEX NAME)

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



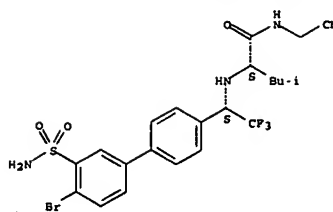
RN 603140-91-6 HCAPLUS  
 CN [1,1'-Biphenyl]-4-carboxamide,  
 4'-[1-[[1-[[[2,2,2-trifluoroethyl]amino]carbonyl]-3-methylbutyl]amino]-2,2,2-trifluoroethyl]-N-(methoxymethyl)- (9CI) (CA INDEX NAME)



RN 603140-94-9 HCAPLUS  
 CN Pentanamide,  
 2-[[[(1S)-1-[[3'-(aminosulfonyl)-4'-bromo[1,1'-biphenyl]-4-yl]-2,2,2-trifluoroethyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

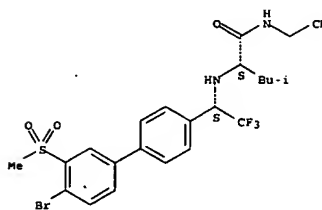
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603140-95-0 HCAPLUS  
 CN Pentanamide,  
 2-[[[(1S)-1-[[4'-bromo-3'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2,2,2-trifluoroethyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

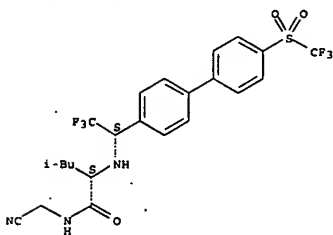
Absolute stereochemistry.



RN 603140-99-4 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[(1S)-2,2,2-trifluoro-1-[[4'-[[trifluoromethyl]sulfonyl][1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

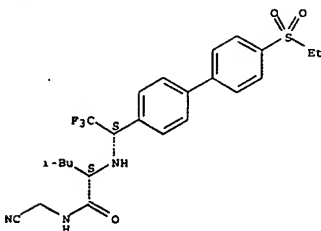
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603141-02-2 HCAPLUS  
 CN Pentanamide,  
 N-(cyanomethyl)-2-[[[(1S)-1-[[4'-(ethylsulfonyl)[1,1'-biphenyl]-4-yl]-2,2,2-trifluoroethyl]amino]-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

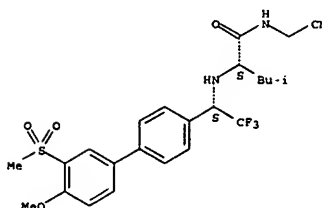
Absolute stereochemistry.



RN 603141-05-5 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[(1S)-2,2,2-trifluoro-1-[[4'-methoxy-3'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

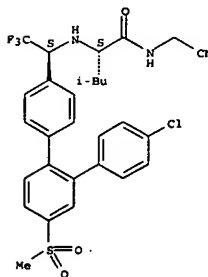
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603141-06-6 HCAPLUS  
 CN Pentanamide, 2-[[[(1S)-1-[[4'-chloro-4'-(methylsulfonyl)[1,1':2',1''-terphenyl]-4-yl]-2,2,2-trifluoroethyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

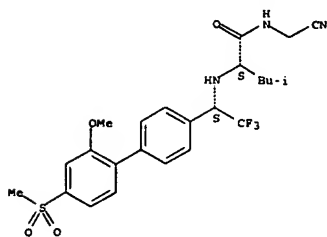
Absolute stereochemistry.



RN 603141-07-7 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[(1S)-2,2,2-trifluoro-1-[[2'-methoxy-4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

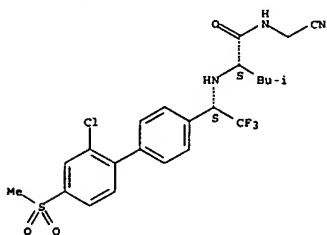
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603141-08-8 HCAPLUS  
 CN Pentanamide, 2-([(1S)-1-(2'-chloro-4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl)-2,2,2-trifluoroethyl]amino)-N-(cyanomethyl)-4-methyl-, (2S)-(9CI)  
 (CA INDEX NAME)

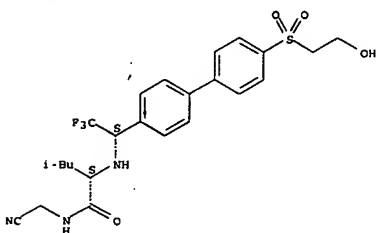
Absolute stereochemistry.



RN 603141-09-9 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-[4'-[(2-hydroxyethyl)thio][1,1'-biphenyl]-4-yl]ethyl]amino)-N-(cyanomethyl)-4-methyl-, (2S)-(9CI)  
 (CA INDEX NAME)

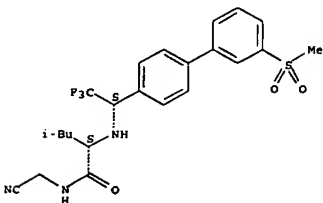
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603141-12-4 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-[3'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino)-N-(cyanomethyl)-4-methyl-, (2S)-(9CI)  
 (CA INDEX NAME)

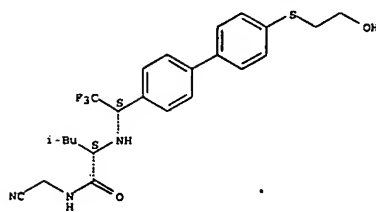
Absolute stereochemistry.



RN 603141-13-5 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-[4'-[(2-methoxymethylamino)-2-oxoethyl]sulfonyl][1,1'-biphenyl]-4-yl]ethyl]amino)-N-(cyanomethyl)-4-methyl-, (2S)-(9CI)  
 (CA INDEX NAME)

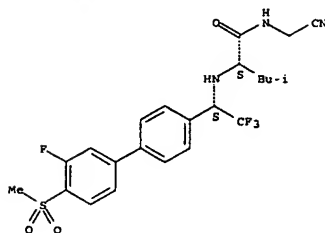
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603141-10-2 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-[3'-fluoro-4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino)-N-(cyanomethyl)-4-methyl-, (2S)-(9CI)  
 (CA INDEX NAME)

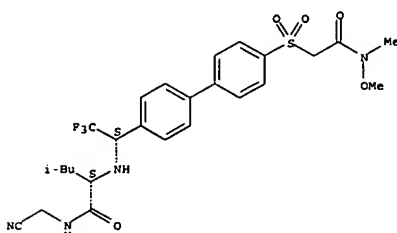
Absolute stereochemistry.



RN 603141-11-3 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-[4'-[(2-hydroxyethyl)thio][1,1'-biphenyl]-4-yl]ethyl]amino)-N-(cyanomethyl)-4-methyl-, (2S)-(9CI)  
 (CA INDEX NAME)

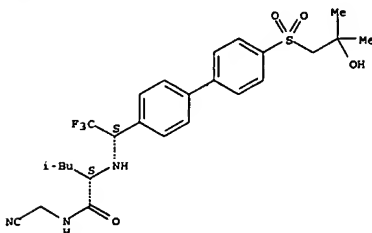
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603141-14-6 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-[4'-[(2-hydroxy-2-methylpropyl)sulfonyl][1,1'-biphenyl]-4-yl]ethyl]amino)-N-(cyanomethyl)-4-methyl-, (2S)-(9CI)  
 (CA INDEX NAME)

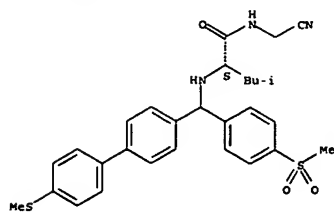
Absolute stereochemistry.



RN 603141-16-8 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-[4'-[(2-methylthio)[1,1'-biphenyl]-4-yl]methyl]amino)-N-(cyanomethyl)-4-methyl-, (2S)-(9CI)  
 (CA INDEX NAME)

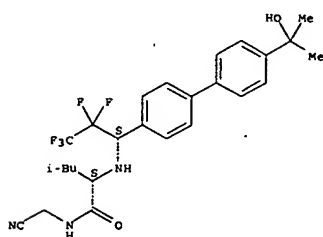
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603141-27-1 HCAPLUS  
 CN Pentanamide,  
 N-(cyanomethyl)-4-methyl-2-[[[(1S)-2,2,3,3,3-pentafluoro-1-(4'-(1-hydroxy-1-methylethyl)(1,1'-biphenyl)-4-yl)propyl]amino]- (2S)- (9CI) (CA INDEX NAME)]

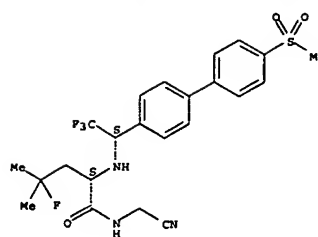
Absolute stereochemistry.



RN 603141-37-3 HCAPLUS  
 CN Pentanamide,  
 N-(cyanomethyl)-4-methyl-2-[[[(1S)-2,2,3,3,3-pentafluoro-1-(4'-(1-hydroxy-1-methylethyl)(1,1'-biphenyl)-4-yl)propyl]amino]- (2S)- (9CI) (CA INDEX NAME)]

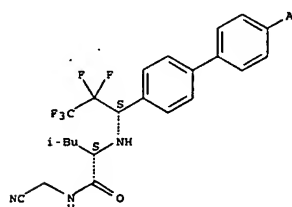
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603141-56-6 HCAPLUS  
 CN Pentanamide, 2-[[[(1S)-1-(4'-acetyl[1,1'-biphenyl]-4-yl)-2,2,3,3,3-pentafluoropropyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)]

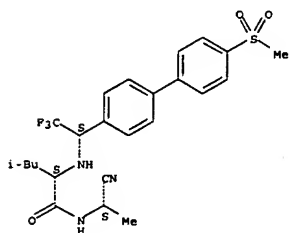
Absolute stereochemistry.



RN 603141-69-1 HCAPLUS  
 CN Pentanamide,  
 N-[[[(1S)-1-cyanoethyl]-4-methyl-2-[[[(1S)-2,2,3,3,3-pentafluoro-1-(4'-(1-hydroxy-1-methylethyl)(1,1'-biphenyl)-4-yl)propyl]amino]- (2S)- (9CI) (CA INDEX NAME)]

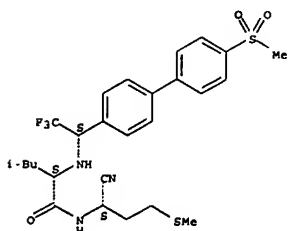
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603141-70-4 HCAPLUS  
 CN Pentanamide,  
 N-[[[(1S)-1-cyano-3-(methylthio)propyl]-4-methyl-2-[[[(1S)-2,2,3,3,3-pentafluoro-1-(4'-(1-hydroxy-1-methylethyl)(1,1'-biphenyl)-4-yl)propyl]amino]- (2S)- (9CI) (CA INDEX NAME)]

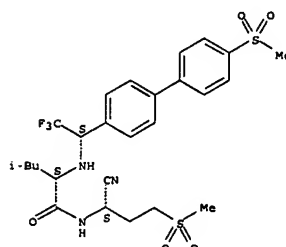
Absolute stereochemistry.



RN 603141-71-5 HCAPLUS  
 CN Pentanamide, N-[[[(1S)-1-cyano-3-(methylthio)propyl]-4-methyl-2-[[[(1S)-2,2,3,3,3-pentafluoro-1-(4'-(1-hydroxy-1-methylethyl)(1,1'-biphenyl)-4-yl)propyl]amino]- (2S)- (9CI) (CA INDEX NAME)]

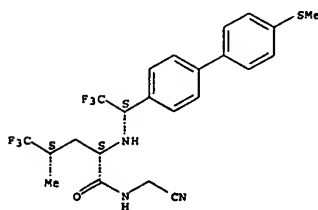
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603141-80-6 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-5,5,5-trifluoro-4-methyl-2-[[[(1S)-2,2,3,3,3-pentafluoro-1-(4'-(1-hydroxy-1-methylethyl)(1,1'-biphenyl)-4-yl)propyl]amino]- (2S,4S)- (9CI) (CA INDEX NAME)]

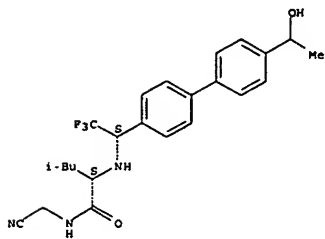
Absolute stereochemistry.



RN 603141-89-5 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[(1S)-2,2,3,3,3-pentafluoro-1-(4'-(1-hydroxy-1-methylethyl)(1,1'-biphenyl)-4-yl)propyl]amino]- (2S)- (9CI) (CA INDEX NAME)]

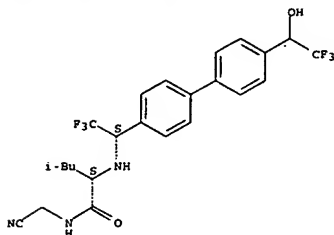
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603141-90-8 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-[4'-(2,2,2-trifluoro-1-hydroxyethyl)]-1,1'-biphenyl]-4-yl)ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

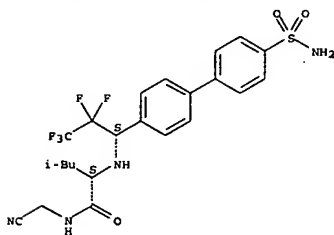
Absolute stereochemistry.



RN 603141-93-1 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-5,5,5-trifluoro-4-methyl-2-([(1S)-2,2,2-trifluoro-1-[4'-(methylsulfonyl)]-1,1'-biphenyl]-4-yl)ethyl]amino]-, (2S,4R)- (9CI) (CA INDEX NAME)

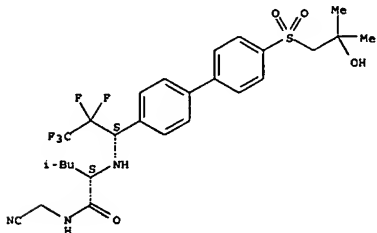
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603142-12-7 HCAPLUS  
 CN Pentanamide,  
 N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,3,3,3-pentafluoro-1-[4'-(2-hydroxy-2-methylpropyl)sulfonyl]-1,1'-biphenyl]-4-yl)propyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

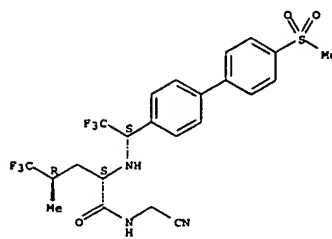
Absolute stereochemistry.



RN 603142-13-8 HCAPLUS  
 CN Propanamide, N-(cyanomethyl)-2-([(1S)-2,2,2-trifluoro-1-[4'-(methylsulfonyl)]-1,1'-biphenyl]-4-yl)ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

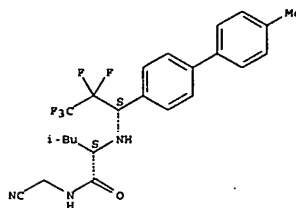
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603141-95-3 HCAPLUS  
 CN Pentanamide,  
 N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,3,3,3-pentafluoro-1-[4'-(methyl[1,1'-biphenyl]-4-yl)propyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

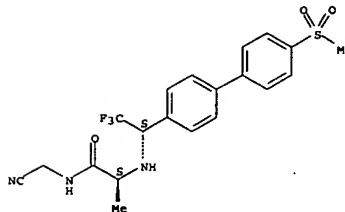
Absolute stereochemistry.



RN 603142-11-6 HCAPLUS  
 CN Pentanamide,  
 2-([(1S)-1-[4'-(aminosulfonyl)]-1,1'-biphenyl]-4-yl)-2,2,3,3,3-pentafluoropropyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

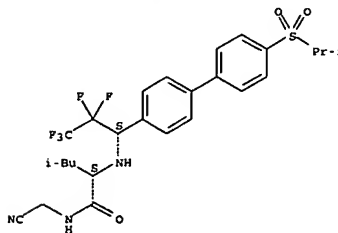
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603142-14-9 HCAPLUS  
 CN Pentanamide,  
 N-(cyanomethyl)-4-methyl-2-([(1S)-2,2,3,3,3-pentafluoro-1-[4'-(1-methylethyl)sulfonyl]-1,1'-biphenyl]-4-yl)propyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

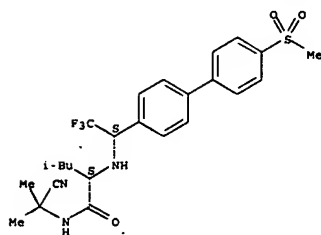
Absolute stereochemistry.



RN 603142-15-0 HCAPLUS  
 CN Pentanamide,  
 N-(1-cyano-1-methylethyl)-4-methyl-2-([(1S)-2,2,2-trifluoro-1-[4'-(methylsulfonyl)]-1,1'-biphenyl]-4-yl)ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

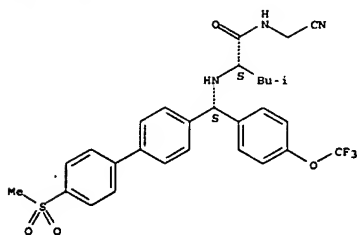
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603142-20-7 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(S)-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl][4-(trifluoromethoxy)phenyl]methyl]amino)-, (2S)-(9CI)  
 (CA INDEX NAME)

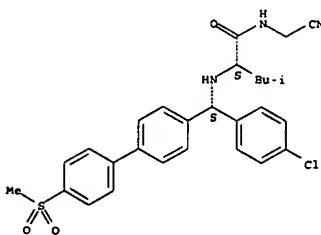
Absolute stereochemistry.



RN 603142-21-8 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(S)-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl][2-thienylmethyl]amino)-, (2S)-(9CI) (CA INDEX NAME)

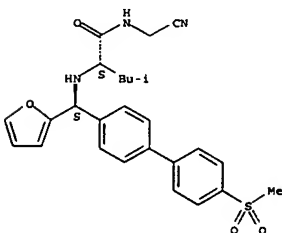
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603142-30-9 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(S)-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl][3-methyl-2-thienyl]methyl]amino)-, (2S)-(9CI) (CA INDEX NAME)

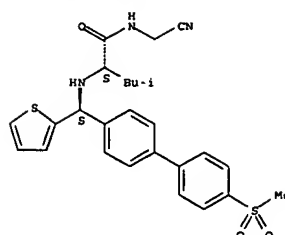
Absolute stereochemistry.



RN 603142-35-4 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(S)-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl][3-thienylmethyl]amino)-, (2S)-(9CI) (CA INDEX NAME)

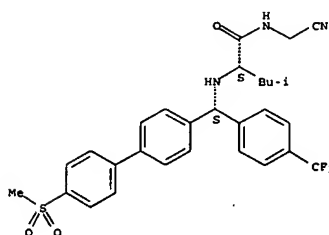
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603142-23-0 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(S)-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl][4-(trifluoromethyl)phenyl]methyl]amino)-, (2S)-(9CI)  
 (CA INDEX NAME)

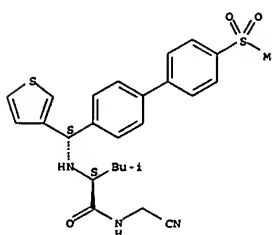
Absolute stereochemistry.



RN 603142-24-1 HCAPLUS  
 CN Pentanamide, 2-([(S)-[4-(chlorophenyl)][4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]methyl]amino)-N-(cyanomethyl)-4-methyl-, (2S)-(9CI) (CA INDEX NAME)

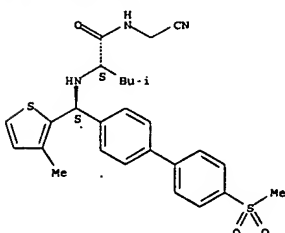
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603142-36-5 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(S)-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl][3-methyl-2-thienyl]methyl]amino)-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

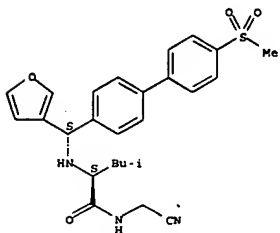


RN 603142-42-3 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-([(S)-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl][3-furanyl]methyl]amino)-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

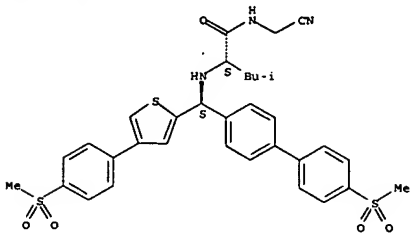


L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603142-45-6 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[4'-(methylsulfonyl)phenyl]-2-thienyl]methyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

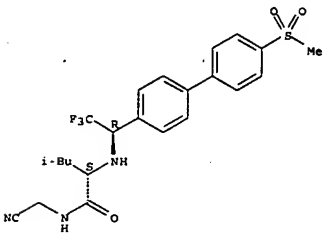


RN 603142-49-0 HCAPLUS  
 CN Pentanamide, 2-[[[4'-(aminosulfonyl)phenyl]-2-thienyl]methyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

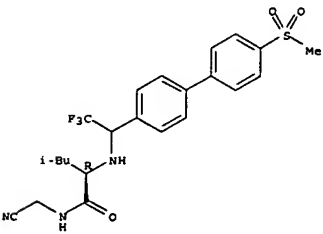
L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Absolute stereochemistry.



RN 603143-36-8 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[2,2,2-trifluoro-1-(4'-(methylsulfonyl)phenyl)-4-ylethyl]amino]-, (2R)- (9CI) (CA INDEX NAME)

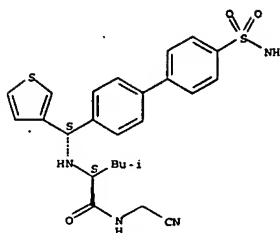
Absolute stereochemistry.



RN 603143-38-0 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[2,2,2-trifluoro-1-(4'-(methylsulfonyl)phenyl)-4-ylethyl]amino]-, (2R)- (9CI) (CA INDEX NAME)

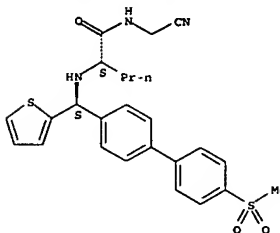
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



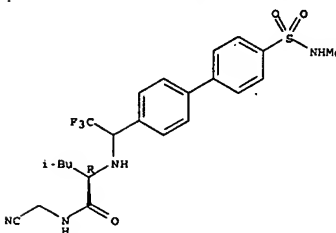
RN 603142-70-7 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-2-[[[4'-(methylsulfonyl)phenyl]-2-thienyl]methyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



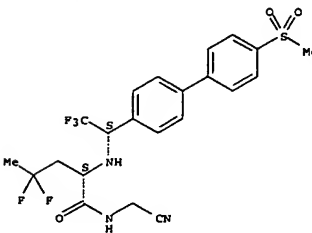
IT 603143-34-6 603143-36-8 603143-38-0  
 603143-63-1 603143-64-2 603143-67-5  
 603143-94-8 603143-96-0 603143-98-2  
 603144-00-9 603145-26-2  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (cathepsin cysteine protease inhibitors and their therapeutic use)  
 RN 603143-34-6 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[[1R)-2,2,2-trifluoro-1-(4'-(methylsulfonyl)phenyl)-4-ylethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603143-63-1 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4,4-difluoro-2-[[[1S)-2,2,2-trifluoro-1-(4'-(methylsulfonyl)phenyl)-4-ylethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

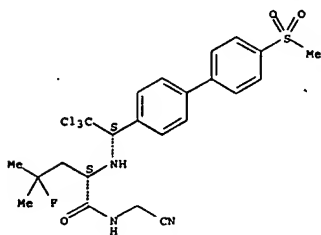
Absolute stereochemistry.



RN 603143-64-2 HCAPLUS  
 CN Pentanamide, N-(cyanomethyl)-4-fluoro-4-methyl-2-[[[1S)-2,2,2-trichloro-1-(4'-(methylsulfonyl)phenyl)-4-ylethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

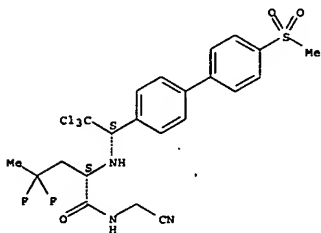
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603143-67-5 HCAPLUS  
 CN Pentanamide, N-(1-cyanomethyl)-4,4-difluoro-2-[[[(1S)-2,2,2-trichloro-1-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

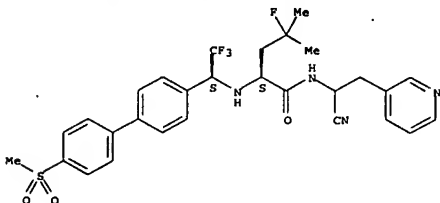
Absolute stereochemistry.



RN 603143-94-8 HCAPLUS  
 CN Pentanamide, N-(1-cyano-2-(3-pyridinyl)ethyl)-4-fluoro-4-methyl-2-[[[(1S)-2,2,2-trifluoro-1-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

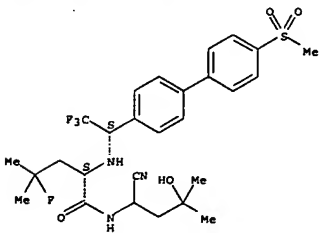
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603144-00-9 HCAPLUS  
 CN Pentanamide, N-(1-cyano-3-hydroxy-3-methylbutyl)-4-fluoro-4-methyl-2-[[[(1S)-2,2,2-trifluoro-1-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

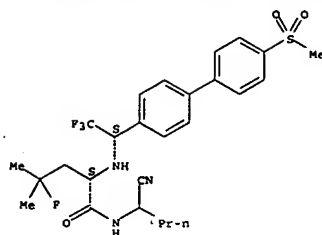
Absolute stereochemistry.



RN 603145-26-2 HCAPLUS  
 CN Pentanamide, N-(1-cyano-2-(3-pyridinyl)ethyl)-4,4-difluoro-2-[[[(1S)-2,2,2-trifluoro-1-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

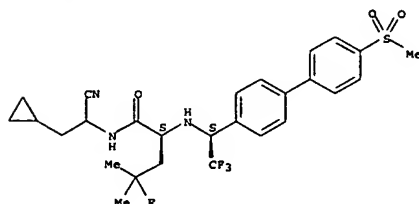
Absolute stereochemistry.

L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 603143-96-0 HCAPLUS  
 CN Pentanamide, N-(1-cyano-2-cyclopropylethyl)-4-fluoro-4-methyl-2-[[[(1S)-2,2,2-trifluoro-1-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

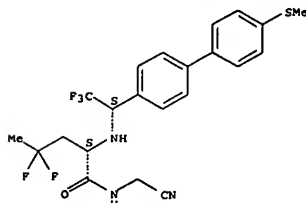
Absolute stereochemistry.



RN 603143-98-2 HCAPLUS  
 CN Pentanamide, N-(1-cyano-2-(3-pyridinyl)ethyl)-4-fluoro-4-methyl-2-[[[(1S)-2,2,2-trifluoro-1-[4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

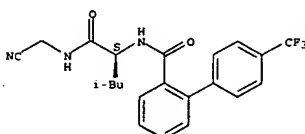
L10 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L10 ANSWER 13 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ED Entered STN: 22 Sep 2000  
 AB Title compds. [R1R2NCRJR4CN; R1 = R11R7NCR5R9X1,  
 R11R9NCR6R10X2NR7CR5R9CX1;  
 X1, X2 independently = CO, CH2SO2; R5, R6 independently = H, C1-6alkyl;  
 R7, R8 independently = H, C1-6alkyl; R9, R10 independently =  
 (un)substituted-C1-6alkyl; R9-R7 = trimethylene, tetramethylene,  
 phenylene-1,2-dimethylene; R10-R8 = trimethylene, tetramethylene,  
 phenylene-1,2-dimethylene; R5-R9 = C3-8cycloalkylene, C3-  
 8heterocycloalkylene; R10-R6 = C3-8cycloalkylene,  
 C3-8heterocycloalkylene;  
 C3-8heterocycloalkylene;  
 R11 = X4X5R18; X4 = CO, COCO, SO2; X5 = bond, O, NH; R18 = C1-6alkyl; R2  
 H, C1-6alkyl; R3 = H, C1-6alkyl; R4 = CN, COOH, COOC1-6alkyl; R2-R4 =  
 trimethylene, tetramethylene, phenylene-1,2-dimethylene; R4-R3 =  
 C3-8cycloalkylene, C3-8heterocycloalkylene], N-oxide, prodrug, isomers,  
 pharmaceutically acceptable salts, and composition are prepared as  
 therapeutically effective estrogen receptor agonist. Title compds. are  
 claimed in treating osteoporosis in post-menopausal women in which  
 cathepsin K activity contributes to the pathol. and symptomatol. of the  
 disease. Thus, the title compound  
 (S)-C6H5CH2OCONHCH(CH2CH(CH3)2)CONHCH2CN  
 was prepared  
 ACCESSION NUMBER: 2000:666701 HCAPLUS  
 DOCUMENT NUMBER: 133:252050  
 TITLE: Preparation of novel N-cyanomethyl amide compounds  
 and  
 compositions as protease inhibitors to treat  
 osteoporosis  
 INVENTOR(S): Bryant, Clifford M.; Palmer, James T.; Rydzewski,  
 Robert M.; Setti, Eduardo L.; Tian, Zong-Qiang;  
 Venkatraman, Shankar; Wang, Dan-Xiong  
 ACYA Pharmaceuticals, Inc., USA  
 PATENT ASSIGNEE(S):  
 SOURCE: PCT Int. Appl., 155 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000055126	A2	20000921	WO 2000-056837	20000315
WO 2000055126	A3	20010222		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RM:	GH, GM, KE, LS, MM, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CO, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2368148	A1	20000921	CA 2000-2368148	20000315
EP 1161415	A2	20011212	EP 2000-916375	20000315
EP 1161415	B1	20050713		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			

L10 ANSWER 13 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 ED Entered STN: 27 May 1999  
 AB N-terminal substituted dipeptide nitriles R(L)XX1NHC(R2R3C)(Y)NHC(R4R5CN (R  
 is optionally substituted aryl, alkyl, alkenyl, alkynyl, heterocyclyl;  
 R2,  
 R3 = H, optionally substituted alkyl, cycloalkyl, bicycloalkyl, or aryl-  
 biaryl-, cycloalkyl, bicycloalkylalkyl; R2 and R3 together represent  
 alkylene, optionally interrupted by O, S, or NR6; where R6 is H, alkyl,  
 arylalkyl; or R2 or R3 are linked by alkylene to the adjacent nitrogen to  
 form a ring; R4, R5 = H, optionally substituted alkyl, arylalkyl, CO2R7,  
 CONR7R8 (R7 is optionally substituted alkyl, aryl, arylalkyl, cycloalkyl,  
 bicycloalkyl, or heterocyclyl and R8 is H or optionally substituted  
 alkyl,  
 aryl, arylalkyl, cycloalkyl, bicycloalkyl, heterocyclyl), etc.; R4 and R5  
 together represent alkylene, optionally interrupted by O, S, or NR6; X1 =  
 CO, CS, SO, SO2, P(O)OR6; Y = O, S; L is optionally substituted Het,  
 Het-CH2, CH2-Het (Het = O, N, or S); x = zero or 1; were prepared as  
 inhibitors of cysteine cathepsins, e.g., cathepsins B, K, L and S, and  
 can  
 be used for the treatment of cysteine cathepsin dependent diseases and  
 conditions. Thus, N-[2-[(3-carboxyphenyl)methoxy]-1-(S)-cyanoethyl]-3-  
 methyl-Nu-(2,2-diphenylacetyl)-L-phenylalaninamide was prepared and  
 shown to have IC50 = 5 nM for inhibition of cathepsin B.  
 ACCESSION NUMBER: 1999:325961 HCAPLUS  
 DOCUMENT NUMBER: 130:352553  
 TITLE: Synthesis of dipeptide nitriles as inhibitors of  
 cysteine cathepsins  
 INVENTOR(S): Altmann, Eva; Betaschart, Claudia; Gohda, Keigo;  
 Horiuchi, Miyuki; Lattmann, Rene; Misabach, Martin;  
 Sakaki, Junichi; Takai, Michihiro; Teno, Naoki;  
 Cowen,  
 Scott Douglas; Greenspan, Paul David; McQuire, Leslie  
 Houghton; Tommasi, Ruben Alberto; Van Duzer, John  
 Henry  
 PATENT ASSIGNEE(S): Novartis AG, Swiss.; Novartis-Erfindungen  
 Verwaltungsgesellschaft mbH  
 SOURCE: PCT Int. Appl., 137 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:



L10 ANSWER 13 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 IE, SI, LT, LV, FI, RO  
 BR 2000090043 A 20020108 BR 2000-9043 20000315  
 TR 200103337 T2 20020321 TR 2001-3337 20000315  
 TR 200103390 T2 20020521 TR 2001-3390 20000315  
 HU 200200347 A2 20020629 HU 2002-347 20000315  
 HU 200200503 A2 20020629 HU 2002-503 20000315  
 US 6455502 B1 20020924 US 2000-526090 20000315  
 TR 200201874 T2 20021021 TR 2002-1874 20000315  
 US 6476026 B1 20021105 US 2000-526485 20000315  
 JP 2002539192 T 20021119 JP 2000-605557 20000315  
 EP 200100487 A 20030217 EP 2001-487 20000315  
 AU 769736 B2 20040205 AU 2000-37486 20000315  
 PT 1178958 T 20040730 PT 2000-916343 20000315  
 EP 1452522 A2 20040901 EP 2004-75486 20000315  
 EP 1452522 A3 20050209  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, LT, LV, FI, MK, CY, AL  
 ES 3215626 T3 20041015 ES 2000-916343 20000315  
 AT 299493 T 20050715 AT 2000-916375 20000315  
 ES 2245303 T3 20060101 ES 2000-916375 20000315  
 ZA 2001007494 A 20020911 ZA 2001-7494 20010911  
 ZA 2001007495 A 20020911 ZA 2001-7495 20010911  
 NO 2001004484 A 20011026 NO 2001-4484 20010914  
 BG 106013 A 20020531 BG 2001-106013 20011012  
 HR 2001000737 A1 20021031 HR 2001-737 20011012  
 US 2002086996 A1 20020704 US 2001-17851 20011214  
 US 559327 B2 20030715  
 US 2003096796 A1 20030522 US 2002-205600 20030724  
 US 200319788 A1 20030626 US 2002-241001 20030909  
 US 2004147745 A1 20040729 US 2004-758893 20040115  
 US 2007015755 A1 20070118 US 2006-533582 20060920  
 PRIORITY APPLN. INFO.: US 1999-124420P P 19990315  
 EP 2000-916343 A3 20000315  
 US 2000-526090 A1 20000315  
 US 2000-526485 A3 20000315  
 WO 2000-US6837 W 20000315  
 US 2002-205600 B1 20020724  
 US 2004-758893 B1 20040115

OTHER SOURCE(S): MARPAT 133:252050  
 IT 294622-17-6P  
 RL: BAC (Biological activity or effector, except adverse); BSU  
 (Biological  
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);  
 BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (Preparation of novel N-cyanomethyl amides and compns. as protease  
 inhibitors)  
 RN 294622-17-6 HCAPLUS  
 CN [1,1'-Biphenyl]-2-carboxamide,  
 N-[(1S)-1-[(cyanomethyl)amino]carbonyl]-3-

L10 ANSWER 14 OF 14 HCAPLUS COPYRIGHT 2007 ACS on STN  
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 arylalkyl; or R2 or R3 are linked by alkylene to the adjacent nitrogen to  
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 CONR7R8 (R7 is optionally substituted alkyl, aryl, arylalkyl, cycloalkyl,  
 bicycloalkyl, or heterocyclyl and R8 is H or optionally substituted  
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 aryl, arylalkyl, cycloalkyl, bicycloalkyl, heterocyclyl), etc.; R4 and R5  
 together represent alkylene, optionally interrupted by O, S, or NR6; X1 =  
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 Het-CH2, CH2-Het (Het = O, N, or S); x = zero or 1; were prepared as  
 inhibitors of cysteine cathepsins, e.g., cathepsins B, K, L and S, and  
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 Horiuchi, Miyuki; Lattmann, Rene; Misabach, Martin;  
 Sakaki, Junichi; Takai, Michihiro; Teno, Naoki;  
 Cowen,  
 Scott Douglas; Greenspan, Paul David; McQuire, Leslie  
 Houghton; Tommasi, Ruben Alberto; Van Duzer, John  
 Henry  
 PATENT ASSIGNEE(S): Novartis AG, Swiss.; Novartis-Erfindungen  
 Verwaltungsgesellschaft mbH  
 SOURCE: PCT Int. Appl., 137 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9924460	A2	19990520	WO 1998-EP6937	19981103
WO 9924460	A3	19990902		
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW			
RM:	GH, GM, KE, LS, MM, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CO, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2306313	A1	19990520	CA 1998-2306313	19981103
AU 9914873	A	19990521	AU 1999-14873	19981103
AU 751669	B2	20020822		
EP 1028942	A2	20000823	EP 1998-958887	19981103
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			

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L10 ANSWER 14 OF 14 HCAPIUS COPYRIGHT 2007 ACS on STN (Continued)  
IE, FI  
BR 9813197 A 20000829 BR 1998-13197 19981103  
TR 200001189 T2 20000921 TR 2000-200001189 19981103  
JP 2001522862 T 20011120 JP 2000-520468 19981103  
HU 200004400 A2 20020429 HU 2000-4400 19981103  
RU 2201420 C2 20030327 RU 2000-114821 19981103  
ZA 9810073 A 19990505 ZA 1998-10073 19981104  
TW 527362 B 20030411 TW 1998-87118553 19981105  
NO 2000002320 A 20000704 NO 2000-2320 20000502  
US 6353017 B1 20020305 US 2000-643639 20000822  
US 2004029814 A1 20040212 US 2003-342872 20030115  
US 2004110806 A1 20040610 US 2003-694672 20031028  
US 2006235220 A1 20061019 US 2006-374995 20060315  
GB 1997-23407 A 19971105  
US 1997-108160P P 19971205  
US 1997-985973 A 19971205  
WO 1998-EP6937 W 19981103  
US 1998-186223 B1 19981104  
US 2000-643639 A1 20000822  
US 2002-54590 B1 20020122  
US 2003-342872 A1 20030115  
US 2003-694672 B1 20031028

OTHER SOURCE(S): MARPAT 130:352553  
IT 225119-32-4P  
RL: BAC (Biological activity or effector, except adverse); BSU  
(Biological  
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);  
BIOL (Biological study); PREP (Preparation); USES (Uses)  
(synthesis of dipeptide nitriles as inhibitors of cysteine cathepsins)  
RN 225119-32-4 HCAPIUS  
CN [1,1'-Biphenyl]-4-carboxamide, N-[(1S)-1-[[[(1S)-1-cyano-3-methylbutylamino]carbonyl]-3-methylbutyl]-4'-methoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L10 ANSWER 14 OF 14 HCAPIUS COPYRIGHT 2007 ACS on STN (Continued)

